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COMPUTATION OF WORKING TIME FOR TRACTORS IN HUNGARY

Dr Janos Erdei

While less than half the tractors of Hungary are on state farms, they accomplish 75 percent of the work done by tractors. Privately owned tractors are mostly older types, are worn-out, and have lower performance than state tractors.

In the interest of better management, statistics, and planning on state farms, it was necessary to set up a basic unit of work which would provide an accurate wage basis for machine workers, permit accurate accounting of fuel and lubricants, and facilitate preparation of agricultural work plans, setting up work-competition goals and other programs, files, etc.

There has been no accepted method for computing the degree of exploitation of tractors in Hungary, nor is there a description of such a method in foreign literature. The unit to be adopted, symbol kkk, is the amount of work expended in plowing one cadastral yoke of soil of a slope not exceeding 3-4 percent, of medium penetrability -- offering a resistance of 30-40 kilograms per square decimeter to a Sack-8-type gang plow -- at a medium depth, 17-18 millimeters. The performance of all other agricultural machines must be related to kkk units, using one cadastral yoke as the unit area, and one ton as the unit weight, where necessary. Where fuel consumption is used as the basis of comparison of the amount of work performed, the type and age of the tractors must be nearly uniform, which is the case on state farms. The kkk unit may be modified, in computations, to suit 12 types of terrain. With the new kkk unit, the yearly maximum productive capacity of a tractor can be computed accurately and ahead of time.

The total yearly working time available for agricultural work is computed with the use of the following table.

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
No of days	31	28	31	30	31	30	31	31	30	31	30	31	365
No of holidays	5	4	6	6	6	5	5	5	5	4	6	6	63
Days which can be spent on "in" work	26	24	25	24	25	25	26	26	25	27	24	25	302
Days lost bacause of inclement weather	10	10	3	3	5	5	3	2	2	3	3	9	58
Days which can be spent on "out" work	16	14	22	21	20	20	23	24	23	24	21	16	244

/"In" work is work in the vicinity of the farm buildings and indoors.
"Out" work is general farm work./

No work is done with tractors on the 63 holidays, leaving 302 working days, or 7,248 hours. According to past experience, 1,248 hours more must be excluded because of the weather, excessive darkness, etc., leaving 6,000 hours per year which may be spent partly on "in" and "out" work, and partly on tractor maintenance.

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